

Craney Island Dredged Material Management Area (CIDMMA)

Operations and Maintenance Project

Project Progress Report (April – July 2012)

6 Aug 2012

Project Description: The Craney Island Dredged Material Management Area (CIDMMA) is a 2,500 acre site in Portsmouth, Virginia authorized by the 1946 Rivers and Harbors Act and constructed from 1956 through 1958. The CIDMMA is federally owned and operated and is used by private interests, municipalities, Federal and State agencies for dredged material placement from Norfolk Harbor and adjacent waterways.

Background/Status: The CIDMMA was originally built for \$6 million as a low-cost alternative for the placement of dredged material. A key factor in maintaining the Hampton Roads as a deep water port (50 foot channel) is that, with the CIDMMA available, it costs users significantly less to dispose of material dredged from the region's channels, not only saving money but keeping the Port of Hampton Roads competitive with other East Coast ports and a prime candidate to receive the largest container ships.

A portion of the cost to construct and maintain the CIDMMA is recovered by a system of toll charges for the use of the facility. Currently, a toll of \$6.81 per cubic yard is collected to use the Craney Island Rehandling Basin, of which \$1.38 is returned to the Treasury. For direct placement of material, a toll of \$1.38 per cubic yard is collected, all of which is returned to the U.S. Treasury. Placement of dredged material at CIDMMA is restricted to material dredged from navigation channels in the geographic area of Norfolk Harbor and adjacent waters.

Craney Island was originally planned to hold approximately 96 million cubic yards with an expected useful life of 20 years. To date, thanks to new technologies and innovative management practices, the facility has received more than 230 million cubic yards of material.

Congressional Interest: Sens. Warner and Webb (VA); Reps. Rigell (VA-2), Scott (VA-3) and Forbes (VA-4).

Key Points:

- **The Craney Island Dredged Material Management Area is important to the economic engine of Hampton Roads' port and maritime community.**
- **Numerous environmental precautions are taken to ensure that the operation of Craney Island does not have a negative effect on the ecosystem.**
- **The site is carefully designed and engineered to prevent dike failure and erosion.**



Account Manager: Michael Darrow

Project Manager: Steve Powell & Sam McGee

Local Sponsor Representative: Virginia Port Authority, Jeff Florin

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Acquisition Strategy: The project requires annual maintenance which includes in-house labor, plant and equipment, a rental ‘truck haul’ contract for earth work and road repair operations, mosquito control, and bird/resource management activities. Fiscal 2012 will also include a contract to provide additional revetment protection to portions of the North Shore of Craney Island.

Proposed Contract Acquisitions for Fiscal Year 2012 include:

MAR 2012	APR 2012	MAY 2012	JUN 2012	JUL 2012	AUG 2012	SEPT 2012	OCT 2012
New ‘Truck Haul’ Rental Contract for Earth Work at Craney Island							
				Ready to Advertise	Contract Award		Begin Const.
North Shore Revetment Contract at Craney Island							
				Ready to Advertise	Contract Award		Begin Const.
Aerial Mosquito Control Contract*							
Aerial Spraying will occur typically May through October							
Existing Mosquito Ground Control Contract used from May through October							

*Task orders scheduled to be awarded by mid August 2012

If additional funds beyond the President’s budget amount were available, they could be used to replace spillway number 2 and continue repair and construction of revetment for shore protection on the North side of Craney Island.

Current Phase: Operations and Maintenance (O&M), Navigation Business Line

Financial Information: (As of 6 August 2012)

- Civil Works Funding (O&M is funded 100% by the Federal Government)
 O&M funding currently available for obligation - \$7,287,300
 Work Plan Allocation for FY 2012 - \$10,897,000*
 President’s Budget Amount for FY 2013 - \$10,077,000

* Also used (about ½ of the funding) to fund maintenance dredging of the Norfolk Harbor Federal Navigation Channels.

Project Control Status:

1. Construction Activities

- Dredged Material Management Operations: In-house resources are being used to construct de-watering ditches in the center containment area using the pontoon excavator and the amphibious ditcher.

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- Equipment Rental Contract: A new Truck Haul Contract was awarded 2 August 2012. Work will begin immediately to raise dikes to meet the immediate need for dredged material capacity and repair erosion on shoreline and dikes.
 - Craney Island Eastward Expansion, Cross Dike Construction: Instrumentation clusters are being installed to monitor foundation material characteristics. No construction work is currently being accomplished. Stage 2a work will begin in November 2012.
2. Dredged Material Placement
- Cottrell Contracting Company is currently conducting maintenance dredging of the U.S. Naval Base and is placing dredged material in the North containment area.
3. Facility Maintenance Activities
- Mowing operations are on-going and include mowing and weed trimming around all of the geotechnical monitoring sites.
4. Safety and Accident Prevention
- Voluntary Protection Program (VPP) coordination team meeting was held on 28 June 2012. Following the VPP team meeting, a severe storm/tornado briefing and exercise was conducted.
5. Security Status
- No security issues to report.
6. Wildlife Management
- Routine bird monitoring was conducted by Dr. Ruth Beck and her team on 5 July 2012. The Craney Island Project has a large number of nesting Least Terns as well as several pairs of nesting Black Neck Stilts. The nesting areas are primarily in the sandy areas of the North containment area.
7. Mosquito Surveillance and Control
- Mosquito monitoring during June indicated an increase in mosquito activity and as a result aerial mosquito spraying was conducted the evening of 2 July 2012. Conditions continue to favor mosquito development and it is expected that future aerial spraying will be required for effective mosquito control.
8. Official Visits or Meetings
- A Craney Island Dredged Material Management Area site visit and tour was conducted for the Norfolk District Leadership Development Program (LDP) group on 3 July 2012. The tour included a close-up look at dredged material placement and the operation of the spillways as well as current dredged material management activities.

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9. Support to the Military
- No activity to support.



Green elevation line represents the height of Craney Island from the years 1957 to 2007. The orange elevation line represents the future elevation of Craney Island for the years 2007 until 2025 without improvement of soil strength. The orange dashed line represents potential future elevation from 2025 until Craney Island is no longer needed as a placement site for dredged material. This will require the use of existing and new technologies to strengthen the soils beneath Craney Island.

- A project goal for fiscal year 2012 is to accomplish an aerial survey by September 2012. The survey will be used to update dredged material cell, division dike, and perimeter dike elevations.

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